

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("6447782").PN.	USPAT	OR	OFF	2005/03/23 15:18
L2	1	("5958437").PN.	USPAT	OR	OFF	2005/03/23 15:21
L3	3	("2782921").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/23 15:25
L4	0	("Nizard.IN.").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/23 15:25
L5	0	("carine.IN.").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/03/23 15:26
L6	27	Nizard.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:26
L7	6	Nizard-Carine.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:29
L8	75	viron.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:30
L9	4	viron-cecile.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:43
L10	9	Krzych.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:47
L11	19	saunois.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:47
L12	10	saunois-alex.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:56
L13	724	provost.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:56

L14	1	provost-nicolas.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/23 15:56
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alerts (SDIs) affected  
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alerts (SDIs) affected  
NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB  
NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN  
NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED  
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and  
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NEWS 17 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks  
(ROSPATENT) added to list of core patent offices covered  
NEWS 18 FEB 10 STN Patent Forums to be held in March 2005  
NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS  
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NEWS 20 FEB 28 PATDPAFULL - New display fields provide for legal status  
data from INPADOC  
NEWS 21 FEB 28 BABS - Current-awareness alerts (SDIs) available  
NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded  
NEWS 23 MAR 02 GBFULL: New full-text patent database on STN  
NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced  
NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 26 MAR 22 KOREAPAT now updated monthly; patent information enhanced  
NEWS 27 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY  
NEWS 28 MAR 22 PATDPASPC - New patent database available  
NEWS 29 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags  
  
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
  
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FILE 'MEDLINE' ENTERED AT 15:02:31 ON 23 MAR 2005

=> s skeletonema

L1 2507 SKELETONEMA

=> s skin or cosmetic

L2 1251695 SKIN OR COSMETIC

=> s L1 and L2

L3 16 L1 AND L2

=> s L1 and (skin or cosmetic)

L4 16 L1 AND (SKIN OR COSMETIC)

=> dup rem l3

PROCESSING COMPLETED FOR L3

L5 13 DUP REM L3 (3 DUPLICATES REMOVED)

=> d ibib abs

L5 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:554463 CAPLUS

DOCUMENT NUMBER: 141:300948

TITLE: Phytoplankton: the new frontier for stress-relieving  
**cosmetic** ingredients

AUTHOR(S): Andre, Patrice; Humeau, Anne; Sousselier, Laurent

CORPORATE SOURCE: LVMH Parfums & Cosmetiques, St. Jean de Braye, Fr.

SOURCE: Cosmetics & Toiletries (2004), 119(6), 77-78, 80-84

CODEN: CTOIDG; ISSN: 0361-4387

PUBLISHER: Allured Publishing Corp.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Phytoplankton or micro algae is a diversified, sustainable and ecol. source of innovative ingredients for **cosmetics**. The authors introduce 3 species that help relieve the **skin** from various stresses and restore homeostasis: *Phaeodactylum tricornutum*,

Porphyridium cruentum, and Skeletonema costatum.

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d L5 2-13 ibib abs

L5 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:97288 CAPLUS  
DOCUMENT NUMBER: 138:158537  
TITLE: Use of steroids as slimming agents  
INVENTOR(S): Picard-Lesboueyries, Elisabeth  
PATENT ASSIGNEE(S): L'Oreal, Fr.  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003009826	A1	20030206	WO 2002-FR2387	20020708
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
FR 2827762	A1	20030131	FR 2001-9854	20010724
PRIORITY APPLN. INFO.:			FR 2001-9854	A 20010724

OTHER SOURCE(S): MARPAT 138:158537

AB The invention concerns the cosmetic use, by topical application on the skin, of at least a steroid selected among 7OH-DHEA and its chemical derivs., as slimming agent, in particular for preventing and/or treating cellulitis or orange peel skin and/or for refining the face contours. The invention also concerns a composition containing, in a physiol. acceptable medium, at least a steroid such as defined above and at least a lipolytic and/or lipogenesis inhibiting agent other than said steroid. Formulation of a gel containing 0.5% 3-O-acetyl-7-benzoyloxy-DHEA is disclosed.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2002:888686 CAPLUS  
DOCUMENT NUMBER: 137:369116  
TITLE: Production and use of a polar lipid-rich fraction containing omega-3 and/or omega-6 highly unsaturated fatty acids from microbes, genetically modified plant seeds and marine organisms  
INVENTOR(S): Kohn, Gerhard; Banzhaf, Wulf; Abril, Jesus Ruben  
PATENT ASSIGNEE(S): Martek Biosciences Boulder Corporation, USA  
SOURCE: PCT Int. Appl., 20 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002092540	A1	20021121	WO 2002-US15454	20020514
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,				
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1392623	A1	20040303	EP 2002-736881	20020514
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004536059	T2	20041202	JP 2002-589427	20020514
PRIORITY APPLN. INFO.:			US 2001-290899P	P 20010514
			WO 2002-US15454	W 20020514

AB The production and use, and in particular, the extraction, separation, synthesis and recovery of polar lipid-rich fractions containing eicosapentaenoic acid (EPA), docosahexaenoic acid (DHA), docosapentaenoic acid (DPA(n-3) or DPA(n-6)), arachidonic acid (ARA), and eicosatetraenoic acid (C20:4n-3) from microorganisms, genetically modified seeds and marine organisms (including fish and squid) and their use in human food, animal feed, pharmaceutical and **cosmetic** applications is described.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 13 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
 ACCESSION NUMBER: 2002:582158 BIOSIS

DOCUMENT NUMBER: PREV200200582158

TITLE: Lipid extract of the **Skeletonema** algae.

AUTHOR(S): Viron, Cecile [Inventor, Reprint author]; Krzych, Valerie [Inventor]; Renimel, Isabelle [Inventor]; Andre, Patrice [Inventor]

CORPORATE SOURCE: Orleans, France

ASSIGNEE: Parfums Christian Dior, Paris, France

PATENT INFORMATION: US 6447782 September 10, 2002

SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Sep. 10, 2002) Vol. 1262, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
 CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent

LANGUAGE: English

ENTRY DATE: Entered STN: 13 Nov 2002

Last Updated on STN: 13 Nov 2002

AB The invention relates to a novel lipid extract of the algae **Skeletonema**, especially the algae **Skeletonema** costatum. In particular, this extract is a total lipid extract of said algae. It can be obtained by extracting the algae **Skeletonema** in an organic solvent which has a polarity index p' of less than about 5.4, preferably of between 2 and 4.5 and particularly preferably of between 4.2 and 4.4, and which is acceptable in the **cosmetic** or pharmaceutical industry. This extract can be used as an active principle for the manufacture of a **cosmetic** or pharmaceutical composition particularly for producing a slimming, anti-cellulite, **skin** anti-ageing or sensitive **skin** treatment.

L5 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:725428 CAPLUS

DOCUMENT NUMBER: 133:286238

TITLE: **Cosmetic** composition comprising at least one substance promoting the formation of connexins and **cosmetic** treatment method

INVENTOR(S): Nizard, Carine; Provost, Nicolas; Viron, Cecile;

PATENT ASSIGNEE(S): Krzych, Valerie; Saunois, Alex  
 SOURCE: LVMH Recherche, Fr.  
 PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000059466	A1	20001012	WO 2000-FR818	20000331
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2791568	A1	20001006	FR 1999-4165	19990402
FR 2791568	B1	20040402		
EP 1165036	A1	20020102	EP 2000-915266	20000331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002541084	T2	20021203	JP 2000-609030	20000331
PRIORITY APPLN. INFO.:			FR 1999-4165	A 19990402
			WO 2000-FR818	W 20000331

AB The present invention relates to **cosmetic** compns. comprising the following: an active ingredient such as at least one substance that promotes intercellular communication of **skin** cells, especially keratinocytes, and fibroblasts and pre-adipocytes of the **skin**; the use of at least one substance promoting intercellular communication of keratinocytes, fibroblasts and pre-adipocytes of the **skin** as a **cosmetic** agent, optionally in the presence of a cosmetically acceptable vehicle; a method for promoting and/or increasing the activity of a **cosmetic** agent acting directly in the cell or via second intracellular messengers, and a method for treating ageing of the **skin** using **cosmetics**. Alc. extract of **Skeletonema** costatum was prepared and its enhancing effects on intercellular communication of cultured **skin** keratinocytes was studied.  
 Formulation of a cream containing 1% S. costatum extract is disclosed.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2000:172864 CAPLUS  
 TITLE: Lipid extract of the **skeletonema** algae  
 INVENTOR(S): Viron, Cecile; Krzych, Valerie; Renimel, Isabelle; Andre, Patrice  
 PATENT ASSIGNEE(S): Parfums Christian Dior, Fr.  
 SOURCE: PCT Int. Appl.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000013660	A1	20000316	WO 1999-FR2144	19990909
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2782921	A1	20000310	FR 1998-11241	19980909
FR 2782921	B1	20020920		
EP 1109529	A1	20010627	EP 1999-941726	19990909
EP 1109529	B1	20021204		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

JP 2002524406	T2	20020806	JP 2000-568469	19990909
ES 2189470	T3	20030701	ES 1999-941726	19990909
PRIORITY APPLN. INFO.:			FR 1998-11241	A 19980909
			WO 1999-FR2144	W 19990909

AB The invention concerns a novel lipid extract of **Skeletonema** algae, particularly of **Skeletonema costatum** algae. In particular said extract is a complete extract of said algae, obtainable by extracting the **Skeletonema** algae in an organic solvent, having a polarity index  $p'$  less than about 5.4, preferably between 2 and 4.5, and more preferably still  $p'$  ranges between 4.2 and 4.4, and cosmetically and pharmaceutically acceptable. Said extract can be used as active principle for making a **cosmetic** or pharmaceutical composition in particular for producing a slimming, anti-cellulite, and **skin** anti-ageing treatment and a treatment for sensitive **skin**.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:622178 CAPLUS

DOCUMENT NUMBER: 131:248251

TITLE: Dermatological healing kit, components therefor, and process for making

INVENTOR(S): Zaveri, Chanda

PATENT ASSIGNEE(S): Geneda Corporation, USA

SOURCE: U.S., 6 pp., Cont.-in-part of U.S. Ser. No. 870,919, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5958437	A	19990928	US 1998-22808	19980212
WO 9855082	A1	19981210	WO 1998-US11655	19980604
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				

AU 9878202	A1	19981221	AU 1998-78202	19980604
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CA 2239699	AA	19981206	CA 1998-2239699	19980605
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PRIORITY APPLN. INFO.:			US 1997-870919	B2 19970606
			US 1998-22808	A 19980212
			WO 1998-US11655	W 19980604

AB The invention is a dermatol. healing kit having a pigment stabilizer component and an anti-inflammatory emollient component, wherein the pigment stabilizer contains a mixture of glycerin, butylene glycol, bearberry extract, and Mitracarpe extract; Mg ascorbyl phosphate; and Tricholoma matsutake singer; and the anti-inflammatory emollient component contains Zanthoxylum bungeanum; decarboxy camosine chlorhydrate; Polygonum multiflorum thumb; Rubus thunbergii; and an aqueous mixture of Siegerbeckia orientalis extract. The kits are effective for treating damage to and discolorations of laser-treated, ablated **skin** surfaces, and thus for the faster elimination of erythema from surface inflammation, for the moisturizing the **skin**, and for preventing and/or counteracting the darkening of **skin** faster than was heretofore possible.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1



ACCESSION NUMBER: 1998:588754 CAPLUS  
DOCUMENT NUMBER: 129:328044  
TITLE: Free amino acid analysis of five microalgae  
AUTHOR(S): Derrien, Anne; Coiffard, Laurence J. M.; Coiffard, Celine; De Roeck-Holtzhauer, Yannick  
CORPORATE SOURCE: CAEC - Universite de Nantes, Saint Herblain, 44805, Fr.  
SOURCE: Journal of Applied Phycology (1999), 10(2), 131-134  
CODEN: JAPPEL; ISSN: 0921-8971  
PUBLISHER: Kluwer Academic Publishers  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The HPLC separation of fluorescent o-phthaldialdehyde (OPA) derivs. has been applied to the assay of free amino acids from five microalgae commonly used in aquaculture: Tetraselmis suecica, **Skeletonema** costatum, Chaetoceros calcitrans, Thalassiosira sp. and Isochrysis galbana, as part an assessment of their potential use in **cosmetic** products. Thirteen free amino acids were analyzed using high performance liquid chromatog. There were considerable differences between species. However, four amino acids were responsible for more than 60% total concentration in all species: Asp, Glu, Arg and Tyr; the next most important (accounting for less than 30%) were: Ala, Val, Phe and Lys.

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 13 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1998:209392 BIOSIS  
DOCUMENT NUMBER: PREV199800209392  
TITLE: Commercial production of microalgae in the Asia-Pacific rim.  
AUTHOR(S): Lee, Yuan-Kun [Reprint author]  
CORPORATE SOURCE: Dep. Microbiol., Natl. Univ. Singapore, Lower Kent Ridge Rd., Singapore 119260, Singapore  
SOURCE: Journal of Applied Phycology, (1997) Vol. 9, No. 5, pp. 403-411. print.  
CODEN: JAPPEL. ISSN: 0921-8971.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 11 May 1998  
Last Updated on STN: 11 May 1998

AB There are around 110 commercial producers of microalgae in the Asia-Pacific region, with annual production capacity ranging from 3 to 500 T. About nine-tenth of the algal cultivation plants are located in Asia. The commercially cultivated microalgae include Chlorella, Spirulina, Dunaliella, Nannochloris, Nitzschia, Cryptothecodinium, Schizochytrium, Tetraselmis, **Skeletonema**, Isochrysis and Chaetoceros. Most of the commercially produced algal biomass is being marketed as health food, in the forms of tablets and capsules. Algae and their extract are also included in noodles, wine, beverages, breakfast cereals and **cosmetics**.

L5 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 1994:477961 CAPLUS  
DOCUMENT NUMBER: 121:77961  
TITLE: Fatty acid composition of some marine microalgae  
AUTHOR(S): Servel Marie-Odile; Claire, C.; Derrien, A.; Coiffard, L.; De Roeck-Holtzhauer Y.  
CORPORATE SOURCE: CAEC, Universite Nantes, Nantes, 44 000, Fr.  
SOURCE: Phytochemistry (1994), 36(3), 691-3  
CODEN: PYTCAS; ISSN: 0031-9422  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Fatty acid anal. was carried out by gas chromatog. on six species of marine microalgae used in aquaculture as an evaluation for proposed **cosmetic** use. Polyunsatd. fatty acids (PUFA) represented a large

Q R 861 P 45

proportion of the total lipids in *Tetraselmis suecica*, *Porphyridium cruentum* and *Isochrysis galbana*, comprising 20.9, 17.1 and 17%, resp. Arachidonic and linolenic acids were the most abundant PUFA in *T. suecica*. *Skeletonema costatum*, *Chaetoceros calcitrans*, *P. cruentum* and *Nannochloropsis* sp. had a high content of eicosapentenoic acid. The amts. of linoleic, octadecatetraenoic and docosahexaenoic acids found in *I. galbana* were notable. The high PUFA content of most of these microalgae make them good potential raw materials for cosmetic upgrading.

L5 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:37806 CAPLUS  
DOCUMENT NUMBER: 120:37806  
TITLE: Carrageenan gel grains for cosmetics.  
INVENTOR(S): Noel, Hugues; Callegari, Jenan Pierre  
PATENT ASSIGNEE(S): Daniel, Jouvance, Fr.  
SOURCE: Fr. Demande, 14 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2683720	A1	19930521	FR 1991-14120	19911115
FR 2683720	B1	19940819		

PRIORITY APPLN. INFO.: FR 1991-14120 19911115

AB Title grains are prepared, which may incorporate polyvalent metal salts, marine organisms or their exts., enzymes, etc. As aqueous solution containing κ-carrageenan 3, Me paraben 0.20, and *Chlorella* culture concentrate 1.00%, was dripped into a coagulating solution, to give gel grains, which were incorporated into cosmetics, such as creams or lotions.

L5 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 1994:129202 CAPLUS  
DOCUMENT NUMBER: 120:129202  
TITLE: Vitamin, free amino acid and fatty acid compositions of some marine planktonic microalgae used in aquaculture  
AUTHOR(S): De Roeck-Holtzhauer, Y.; Claire, C.; Bresdin, F.; Amicel, L.; Derrien, A.  
CORPORATE SOURCE: CAEC-Univ. Nantes, Nantes, 44000, Fr.  
SOURCE: Botanica Marina (1993), 36(4), 321-5  
CODEN: BOTNA7; ISSN: 0006-8055  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Vitamin, free amino acid and fatty acid analyses were carried out on selected different microalgal species used in aquaculture as an evaluation for proposed cosmetic use. In most cases, greater amts. of vitamins were obtained in the microalgae than in the usual human food sources. On a dry weight basis, tyrosine, alanine and glutamic acid were the main free amino acids found in the strains studied. Considering fatty acids and total lipid, the ratio of polyunsatd. fatty acids (PUFA) to saturated fatty acids remained nearly constant for the species analyzed and

PUFA were dominant. For both *Chaetoceros calcitrans* and *Skeletonema costatum*, myristic and palmitic acids were the main saturated acids and EPA the major unsatd. acid, but for *Tetraselmis suecica* palmitic acid represented 29.4% of the total fatty acids. This species also contained oleic, linoleic and octadecatetraenoic acids.

L5 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:467783 CAPLUS  
DOCUMENT NUMBER: 99:67783  
TITLE: On the origin and metabolism of vitamin D in the sea

AUTHOR(S): Holick, M. F.; Holick, S. A.; Guillard, R. L.  
CORPORATE SOURCE: Vitamin D Lab., Massachusetts Gen. Hosp., Boston, MA,  
02114, USA  
SOURCE: Comp. Endocrinol. Calcium Regul., Proc. Satell. Symp.  
(1982), Meeting Date 1981, 85-91. Editor(s): Oguro,  
Chitaru; Pang, Peter K. T. Japan Sci. Soc. Press:  
Tokyo, Japan.  
CODEN: 49XMAU  
DOCUMENT TYPE: Conference  
LANGUAGE: English

AB On exposure to UV radn., the phytoplankton *Emiliana huxleyi* and  
*Skeletonema menzelii* metabolize 7-dehydrocholesterol to previtamin  
D2, which can enter the marine food chain. Lipid exts. of cod, flounder,  
and trout liver contain vitamin D3 as the major vitamin D. Although trout  
**skin**, on exposure to UV radiation converts provitamin D3 to  
previtamin D3, this is not the major source of vitamin D3 for most fish.  
Vitamin D3 is present in trout blood serum and may possibly be converted  
to vitamin D hydroxylated metabolites. There are no known metabolic  
functions of vitamin D in fish and phytoplankton. However, the  
 $\lambda_{max}$  of previtamin D and tachysterol are almost identical to the UV  
absorption of nucleic acids and proteins, resp., suggesting that  
provitamin D and its photoproducts evolved as natural sunscreens to  
protect RNA, DNA, and proteins from UV damage.

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